

**CHAPTER 4 LESSON 2B HOMEWORK**  
*Least Common Multiple*

Name: \_\_\_\_\_  
Date: \_\_\_\_\_

1. Find the least common multiple of the following sets of numbers.

- a. 7 and 4                      b. 8, 5, and 3                      c. 5, 6, and 9

2. Solve each word problem using any method you like. Explain your reasoning behind your answer.

a. *Sarah's Shipping* and *Ryan's Mail Services* both ship packages. Sarah's trucks will only carry loads of 18 packages. In contrast, Ryan's trucks will only carry loads of 11 packages. If both businesses ended up shipping the same number of packages this morning, what is the minimum number of packages each must have shipped?

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b. Jackson Stationery sells cards in packs of 12 and envelopes in packs of 6. If Kina wants the same number of each, what is the minimum number of cards that she will have to buy?

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3. Beginning at 8:30 A.M., tours of the National Capitol and the White House begin at a tour agency. Tours for the National Capitol leave every 15 minutes. Tours for the White House leave every 20 minutes. How often do the tours **leave at the same time**?

- A. Every 15 minutes
- B. Every 30 minutes
- C. Every 45 minutes
- D. Every 60 minutes

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4. At a display booth at an amusement park, every visitor gets a gift bag. Some of the bags have items in them as shown in the table below.

**Items in the Gift Bags**

Items	Bags
Hat	Every 2 <sup>nd</sup> visitor
T-shirt	Every 7 <sup>th</sup> visitor
Backpack	Every 10 <sup>th</sup> visitor

How often will a bag **contain all three items**?

- A. Every 14 bags
- B. Every 19 bags
- C. Every 70 bags
- D. Every 140 bags

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